oppo

DVD MINI COMBO
VS1000

USER MANUAL

READ CAREFULLY
BEFORE OPERATION

Safety Instructions

Danger Symbol

Reminding the user of the dangerous voltage!

Warning Symbol

Reminding the user of the important instructions for operation and maintenance.

WARNING:

To prevent the risk of fire or electric shock, do not expose this unit to rain or moisture.
High voltage components in it so do not attempt to open the enclosure. Only qualified personnel are allowed for maintenance.

CAUTION:

- This DVD player contains laser system.
- Read this manual carefully and get familiar with the instructions before operating.
- After reading this manual, please keep it for future reference. Please contact your local dealer or our technical service center for maintenance.
- To prevent direct laser radiation, do not attempt to open the enclosure. Visible laser beam will radiate when the enclosure is opened or when the interlock device is released. Do not stare at the laser-beam.
- Never place other things or articles upon the player, otherwise it may cause improper playback.

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All images in this manual are sketch illustrations for reference only. The actual displays are contingent upon discs.

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Brief Introduction to DVD

DVD is well known for its extraordinarily large capacity and outstanding audio-video effects. Its capacity is as high as 4.7GB -17GB (approximately 7-26 times the CD capacity).With 500-line horizontal resolution of picture and Dolby Digital 5.1 Channel surround sound, it brings a new era to the household AV products.

Comparison Between DVD and Other Discs

	DVD				LD	Super VCD	VCD	CD	CDROM
Recording Method	Digital/MPEG2				Analog	Digital/MPEG2	Digital/MPEG1	Digital	Digital
Capacity	Single-sided 1 layer 4.7G	Single-sided 2 layers 8.5G	Double-sided 1 layer 9.4G	Double-sided 2 layers 17G		650MB	650MB	650MB	650MB
Playback time	133min.	242min.	266min.	484min.	1 side 60min. 2 sides 120min.	45min.	74min.	74min.	
Disc Diameter	12cm/8cm				30cm/20cm	12cm/8cm	12cm/8cm	12cm/8cm	12cm/8cm
Horizontal Resolution	500 lines or more				430 lines or more	350 lines or more	250 lines or more		
Aspect Ratio	Multiple				One				
Subtitle	32 types				Max. 16 types				
Audio	Dolby Digital/Linear PCM				Linear PCM FM modulation			Linear PCM	
Sound Quality	48kHz,96kHz/16,20,24bit				44.1kHz/16bit		44.1kHz	44.1kHz/16bit	

Function Introduction

- Multiple languages and subtitles

  DVD disc can support as many as 8 dubbing languages and 32 subtitle languages.

- Multiple angles

  DVD disc may support as many as 9 camera angles.

- Multiple story plots

  User can select to play the desired plots (the beginning, development or ending) of the same disc.

- Multiple aspect ratios

  Multiple aspect ratios support various TV screens.

Disc Pictures	TV Screen		
	4:3		16:9
	Pan-Scan	Letterbox	
4:3				
16:9				

PREFACE

Cautions

- Please remove the power plug from the socket when you are not going to use the player for a long time.
- Ensure that all wires and the power supply are properly connected befor turning the Power on.
- The player uses the switching power supply .The range of the power supply: AC 110V~250V, 50/60Hz.
- Before turning on the power of the player, please adjust the volume level knob of audio system speakers and amplifiers to minimum. Adjust the volume as necessary only after starting normal playback to avoid damage to your amplifiers or speakers.
- Do not put your player near any high power speaker or put both on the same table-board so as to avoid any influence on its nomal operation due to vibration.
- Please put the player at a dry and ventilated area. Do not put it near heat source, or expose it to direct sunlight, mechanical vibration, humidity or dust-rich environment ,and also do not put it over heat releasing substances.
- When moving the player from a cold place to a warm one, or vice versa, the laser head may have condensation. Then the player will not work properly. In such a case, please turn the power on for 1-2 hours(without disc) before playing.
- It is allowed to use a small amount of neutral detergent to clean the player. Never use sandpaper or organic solvent such as alcohol or gasoline for cleaning.
- Do not place objects full of liquid such as vase on the player.
- MAINS plug is used as the disconnect device, so mains plug shall always remain readily operable.

Features

This player has employed the new generation DV decode chip with built-in Dolby Digital decoder which will bring you to a brand-new AV entertainment world. The 2-laser super error-correction mechanism supports CD-R.

Brand-new AV Effects

1. Compatible with DivX, MPEG4 discs to produce wonderful pictures.
2. 108MHz/12bit video DAC, with more vivid and brilliant pictures.
3. Compatible with three fashion storage cards such as MMC/SD/MS (Memory stick)，Capable of reading the audio/video data in the storage cards through card reader.
4. Compatible with USB equipment, capable of reading the audio/video data in the USB through USB port.
5. Progressive-scan video outputs to eliminate the flickers hardly overcome by interlacing scan and therefore your eyesight will be well-protected. At the same time, the pictures definition is sharply enhanced and the pictures will be finer, smoother and stabler.
6. DVD-Audio decoding output to reproduce original and realistic sound effects.
7. Brightness, chroma and contrast adjustment functions to render your eyes more comfortable.
8. Composite Video, S-Video and Component Video outputs.
9. Dolby output for 2channel(DOWNMIX)
10. Hi-Fi stereo headphone output.
11. 2-way separate audio input function.
12. FM/AM digital tuning function, capable of storing (memorizing) 20 FM or AM radio stations.
13. High/low tone control, 2-channel separate volume fining function.
14. Real time clock (year, month, date, hour, minute, second) display, timing power on/off function.
15. Power amplifier employs high-performance and large-power IC, with complete protection and perfect sound quality.
16. Subwoofer employs large diameter bass unit matched with large-capacity speaker body to produce deep and dynamic effect.
17. Main speaker is dual-magnetic and magnetic shielded design for environmental protection, with clear and sweet sound quality.
18. More personalized mini I-Link connection, simple and convenient.

High Quality Digital Audio

1. Optical and coaxial outputs for Digital audio.
2. Dobly Digital, PCM Digital audio outputs to satisfy the Fans' acoustic requirements.

Many Convenient Features

1. Screen saver protects your TV set carefully.
2. The novel Mp3 playback window GUI provides you a new way to appreciate Mp3 music.
3. Multi-angle playback function makes it possible for you to view a scene from different camera angles.
4. It's possible to select the desired beginning, development and ending of a story.
5. Direct entry into desired scenes(title/chapter/time/track search).
6. Zooming function to zoom up any playing picture.
7. Capable of playing PAL/NTSC discs.
8. Multiple aspect ratios to fit TV sets of various screen ratios.
9. Parental lock function to prevent children from watching unsuitable discs.
10. Multiple dubbing languages and subtitle languages bring you the best entertainment status all the time.

Super Compatibility with super VCD, VCD, CD , CD-R , MP3,HDCD,KODAK PICTURE CD etc.

NOTE: DivX version is still upgrading continuously and the latest version of this unit is DivX 5.1. Some discs labelled with MPEG4 on the market actually are*.rm/*.ram/*.rmm and others which are imcompatible. Please take care when buying discs.

Compatible Dise Types

Types	Sizes	Recorded Contents
DVD VIDEO	12cm or 8cm	DVD: Compressed digital audio + compressed digital video(dynamic picture)
DVD AUDIO	12cm or 8cm	DVD: Compressed digital audio + compressed digital video(still picture)
SVCD	12cm or 8cm	Super VCD: Compressed digital audio + compressed digital video(dynamic picture)
MPEG4	12cm	MPEG4: Compressed digital audio + compressed digital video(dynamic picture)
COMPACT disc DIGITAL VIDEO	12cm or 8cm	VIDEO CD: Compressed digital audio + compressed digital video(dynamic picture)
COMPACT disc DIGITAL AUDIO	12cm or 8cm	CD-DA: Digital audio
MP3	12cm	Mp3: Compressed digital audio

NOTES

❶ **When the button is invalid, on TV screen display:**

- Press the effective button again.

❷ **Issues related to** DVD MPEG4 Super VCD VCD CD MP3

These icons on the top banner indicate the disc types that the function described in this section applies to.

DVD Applies to DVD disc

MPEG4 Applies to Super MPEG4 disc

Super VCD Applies to Super VCD disc

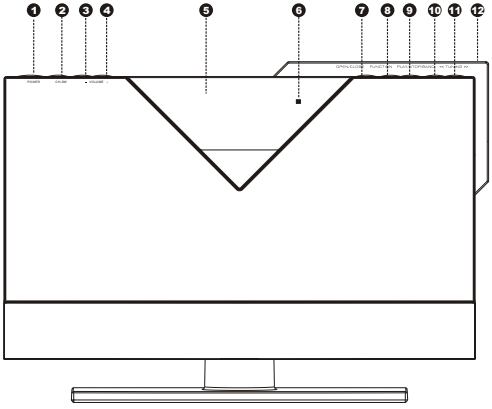
VCD Applies to VCD disc

CD Applies to CD disc

MP3 Applies to MP3 disc

Control Button Locations and Explanations

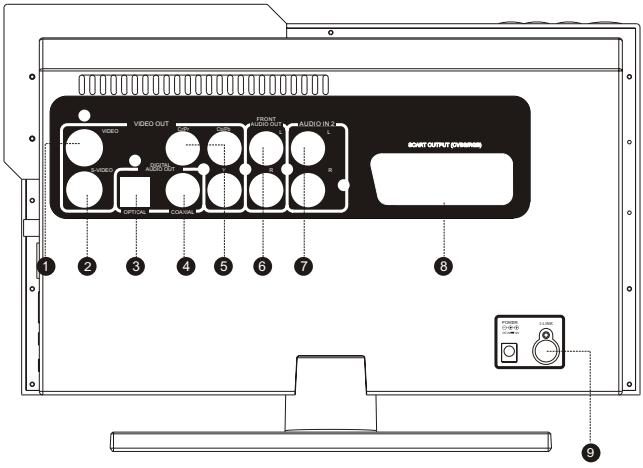
■ Front panel illustration



❶ POWER button
❷ Channel Switch Button
❸ VOL- button
❹ VOL+ button
❺ Display window
❻ IR sensor
❼ OPEN/CLOSE button
❽ FUNCTION button
❾ PLAY/STOP button
BAND button
❿ PREV button
TUNING<< button
⓫ NEXT button
TUNING>> button
⓬ Glass

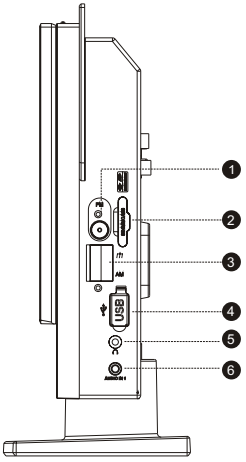
Control Button Locations and Explanations

■ Rear panel illustration



❶ Video out terminal
❷ S-video
❸ Optical out terminal for digital audio
❹ Coaxial out terminal for digital audio
❺ Component video/Y Pb Pr out terminal
❻ Front amplifying audio out terminal
❼ External audio in terminal 2
❽ SCART Outjack
❾ I-LINK out terminal

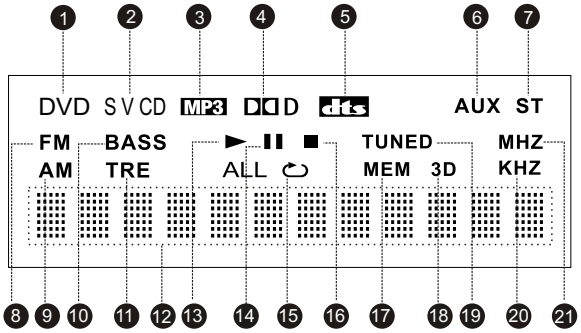
■ Side panel illustration



❶ FM antenna input terminal
❷ Card reader port
❸ AM antenna input terminal
❹ USB port
❺ Headphone jack
❻ External audio input terminal 1

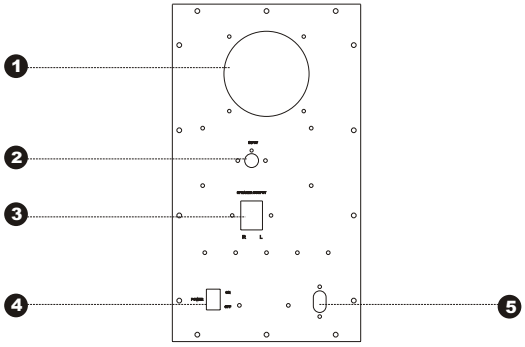
Control Button Locations and Explanations

■ Dot matrix VFD



1. DVD disc
2. CD,VCD, SVCD discs
3. MP3 disc
4. DOLBY DIGITAL
5. DTS
6. External input indicator
7. Stereo indicator
8. FM tuning indicator
9. AM tuning indicator
10. Bass adjustment indicator
11. Treble adjustment indicator
12. Playback information
13. Play
14. Pause
15. Repeat
16. Stop
17. Radio station pre-memory indicator
18. Sound field, EQ indicator
19. Tuning indicator
20. KHZ
21. MHZ

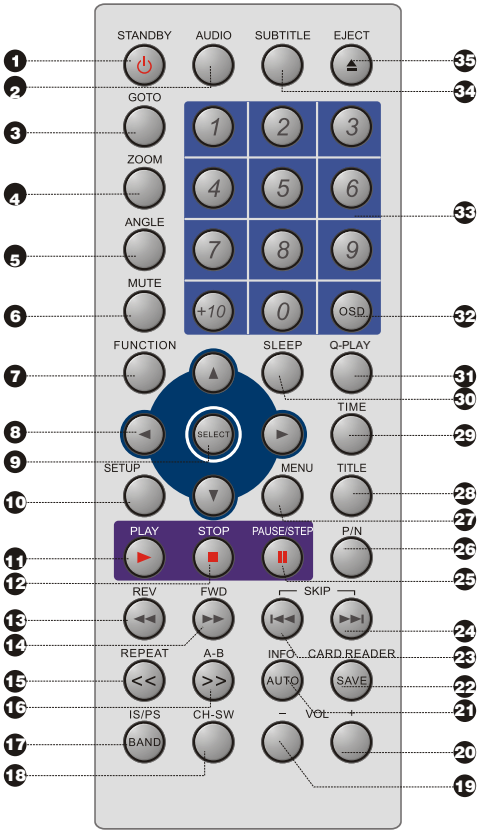
■ Subwoofer rear panel illustration



1. Phase inverter pipe
2. I-LINK input
3. Speaker output
4. Power switch
5. Power cord

Control Button Locations and Explanations

■ Remote Control illustration



1 **STANDBY** Button
Press once to standby, Press twice to play.

2 **AUDIO** Button
Change the audio language or audio channel.

3 **GOTO** button
Play from the desired location.

4 **ZOOM** Button
Zoom in the displayed frame.

5 **ANGLE** Button
Change camera angles.

6 **MUTE** button
Press once to mute, twice to unmute.

7 **FUNCTION** button
Switch DVD mode. Receiver mode and Aux in mode

8 **CURSOR** Buttons

9 **SELECT** Button

10 **SETUP** Button
Function setup.

11 **PLAY** Button
Normal playback.

12 **STOP** Button
Stop playback.

13 **REV** Button
Fast backward play.
TUNNING - Button
Tunning - with one step.

14 **FWD** Button
Fast forward play.
TUNNING + Button
Tunning + with one step.

15 **REPEAT** button
Repeat play.
SEARCH PREV button
Search prev station.

16 **A-B** button
Repeat the select.
SEARCH NEXT button
Search next station.

17 **INTERLACE/PROGRESSIVE** Button
Switch video output to the Interlace /Progressive YPbPr / mode.
BAND button
FM/AM switching.

18 **CHANNEL SWITCH** Button
Select the speaker channel to be adjusted.

19 **VOLUME-**

20 **VOLUME+**

21 **INFO** Button
Switch new user interface.
AUTO Button
Auto tuning.

22 **CARD READER** Button
Switch in DVD ,USB and card reader.
SAVE button
Save radio station.

23 **PREV** Button
Skip backward.
PRESET - Button
Select the prev preset station.

24 **NEXT** Button
Skip forward.
PRESET + Button
Select the next preset station.

25 **PAUSE/STEP** Button
Pause or play frame by frame.

26 **P/N** Button
Switch the TV system between PAL,NTSC and AUTO.

27 **MENU** Button
Display DVD menu or open/close PBC.

28 **TITLE** Button
DVD titles.

29 TIME Button
Show/edit current real time.

30 **SLEEP** Button
Auto sleep/wake up setting.

31 **Q-PLAY** Button
Skip the advertisement /warning and play DVD directly.

32 **OSD** Button
Display or hide disc information.

33 **NUMBER** Buttons

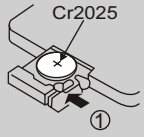
34 **SUBTITLE** Button
Change subtitle language/Switch JPEG display modes.

35 **EJECT** Button
Open or close the disc tray.

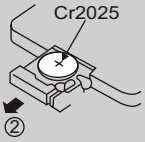
Control Button Locations and Explanations

■ How to use remote control

Battery Installation



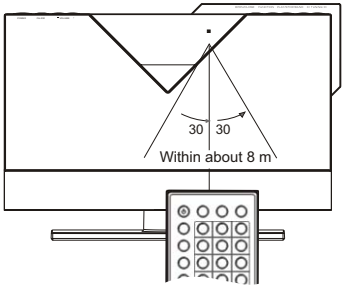
Step 1: press toward left as illustration 1;



Step 2: take out outwards as illustration 2.

Using remote control

When using remote control, the front window of remote control should be pointed to the infrared sensor on the front panel within an angle of ±30° and a range of 8 metres.



Cautions

- Never drop remote control or expose it to moisture.
- Never expose the infrared remote sensor on the front panel to direct sunlight or strong beams.
- When the batteries become low, replace them in time.

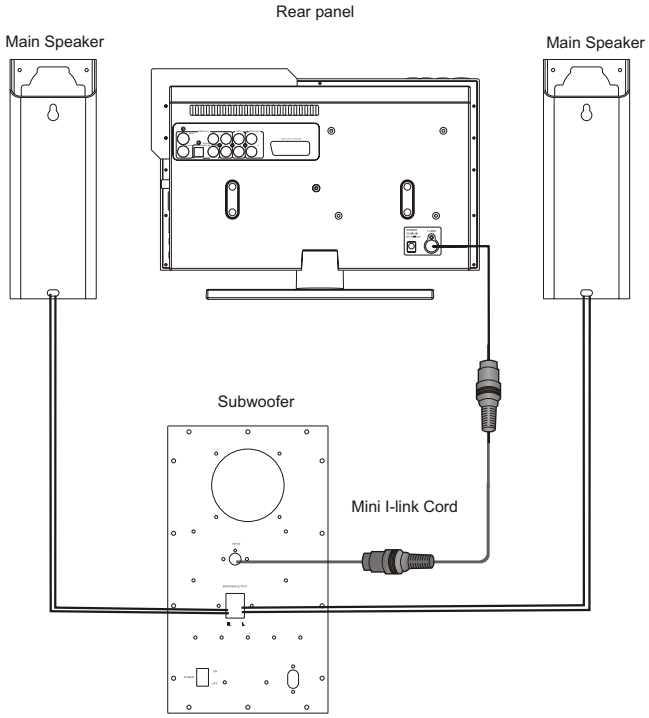
Accessories

Audio/video cord ····· 1suit
AM screen-shielded antenna bracket ····· 1pc
FM Antenna ····· 1pc
Main speaker cord ····· 2pcs
MINI I-LINK CORD ····· 1pc
Remote control ····· 1pc
Power adaptor ····· 1pc
3V button battery ····· 1pc
AV Cord ····· 1pc
User manual ····· 1pc

Caution

Before system connecting, make sure that this player and other equipments are unplugged.

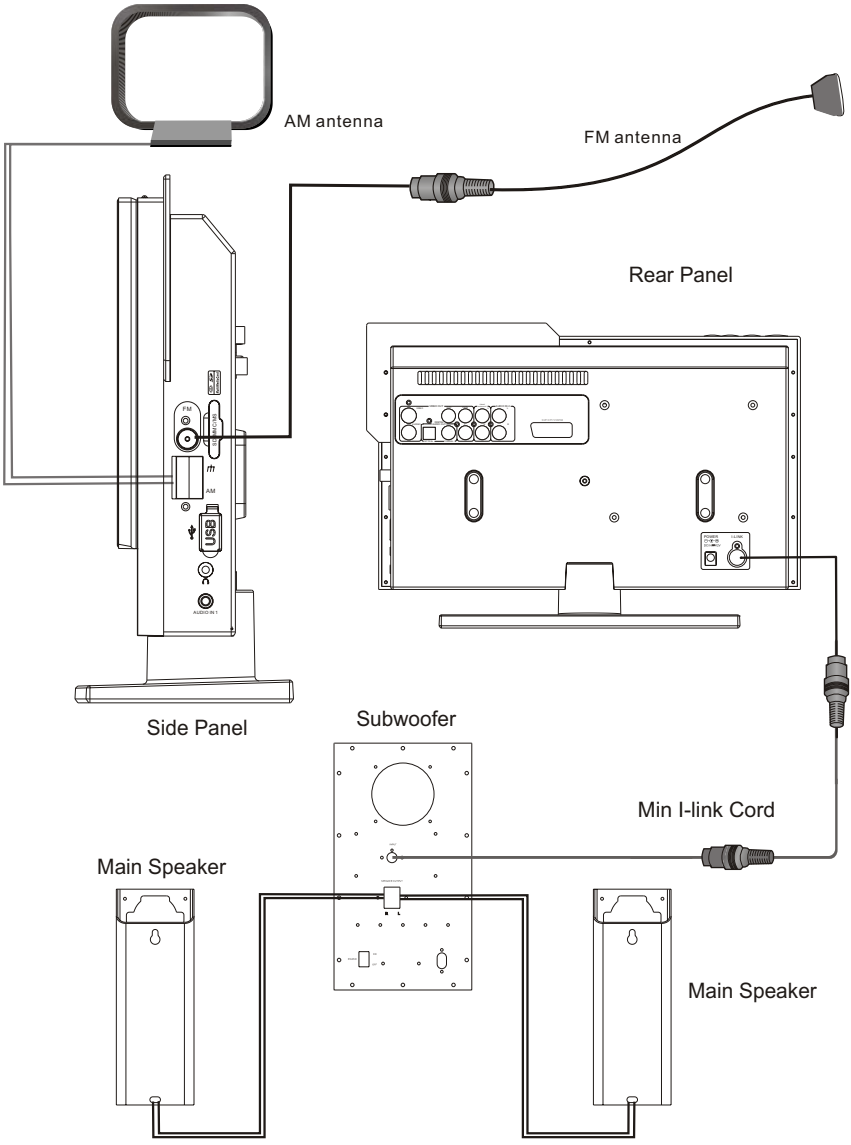
Connected to This Player



- Connect one end of main speaker cord to the connecting card in the bottom of the main speaker, and the square head of the cord is anode. Connect the other end to the power output connecting card in the rear panel of subwoofer speaker. The speaker placed on the left is connected to L socket, and that on the right is connected to R socket.
- Connect one end of mini I-link cord to the mini I-link jack of DVD player, and the other end to that on the rear panel of subwoofer speaker.

SYSTEM CONNECTIONS

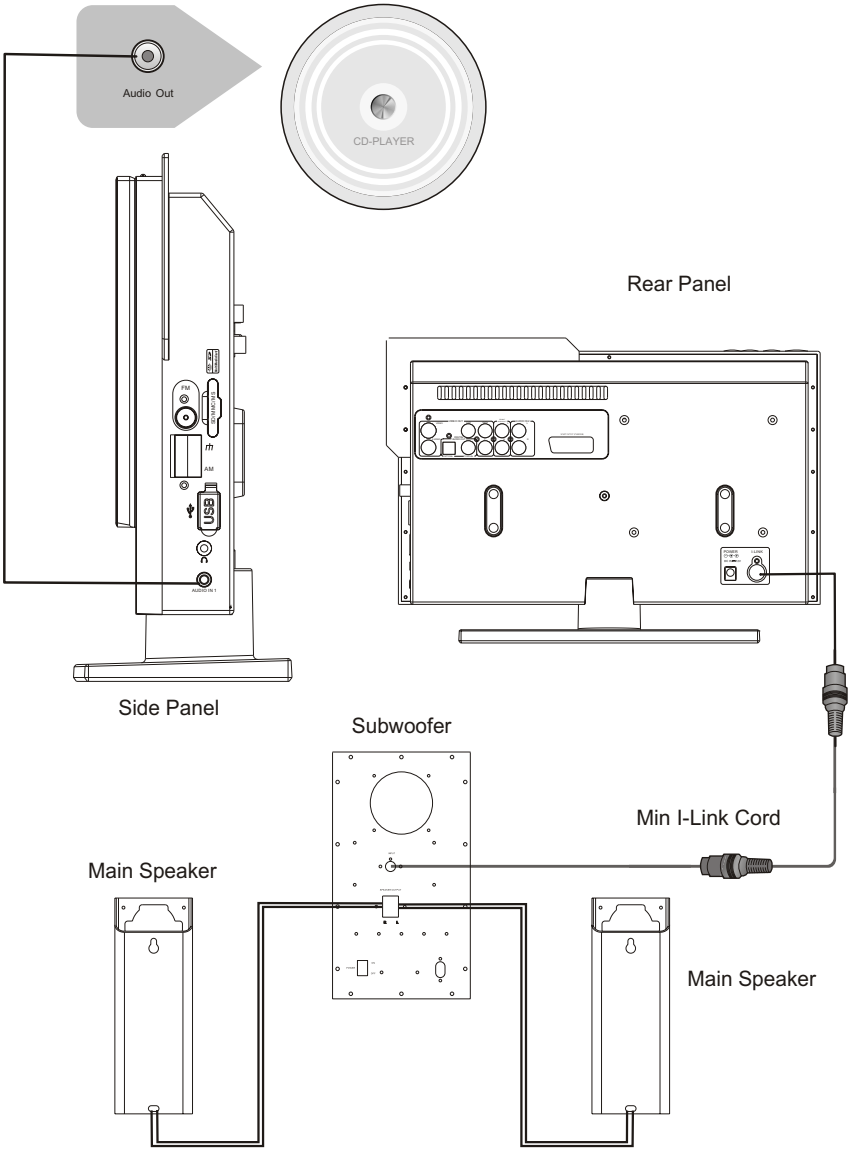
Connected to FM/AM Tuning



- If you want to enjoy radio station program, please connect according to the above connections of FM/AM tuning. Meanwhile press FUNCTION button to switch this player to tuning mode. Please refer to page 18 for details.

Note: When connecting to AM antenna, the ground wire of AM antenna should be connected to ⏚ (ground wire) port, and connect the signal wire of AM antenna to the signal wire port.

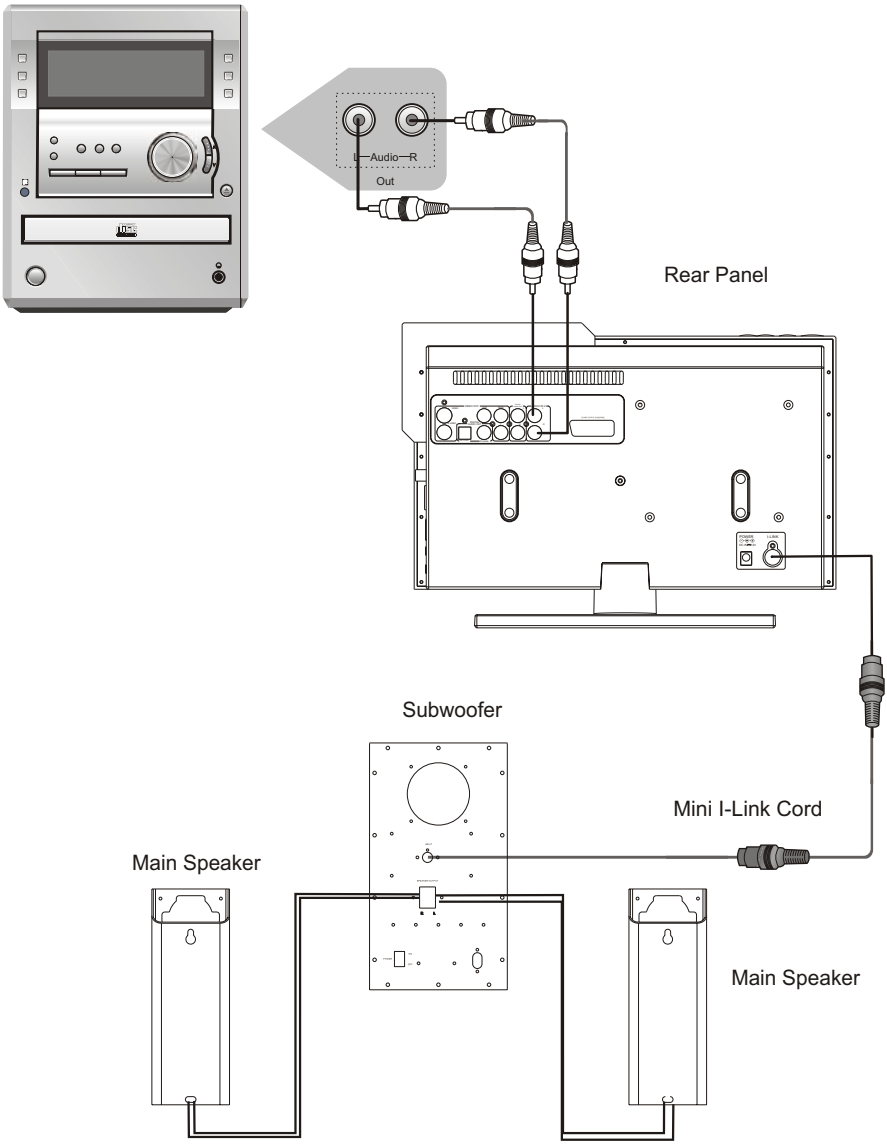
Connected to AUX IN 1



- If you want to enjoy music from external equipments, please connect according to the above connection of external audio input. Meanwhile, press FUNCTION button to switch this player to AUX IN1 mode. Please refer to page 18 for details.

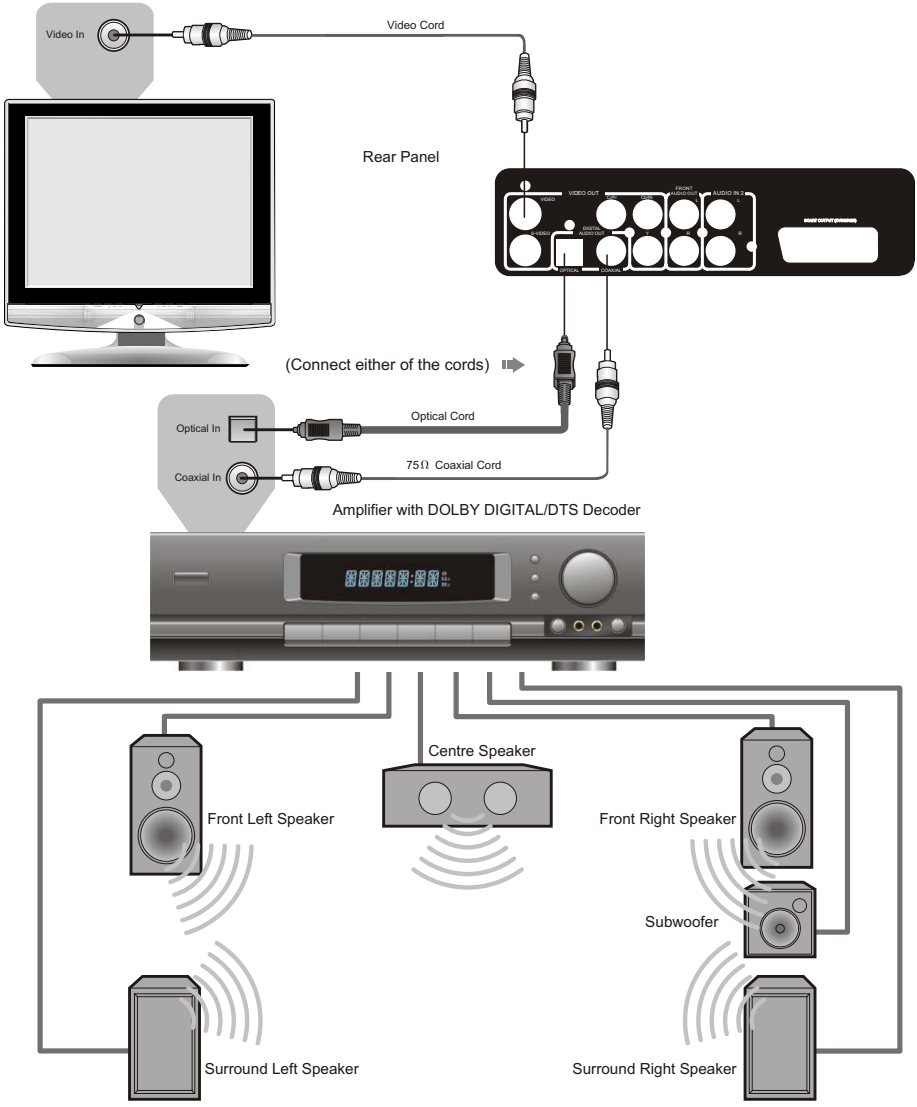
SYSTEM CONNECTIONS

Connected to AUX IN 2



- If you want to enjoy music from external equipments, please connect according to the above connection of external audio input. Meanwhile, press FUNCTION button to switch this player to AUX IN 2 mode. Please refer to page 18 for details.

Connected to Amplifier with DOLBY DIGITAL/DTS Decoder

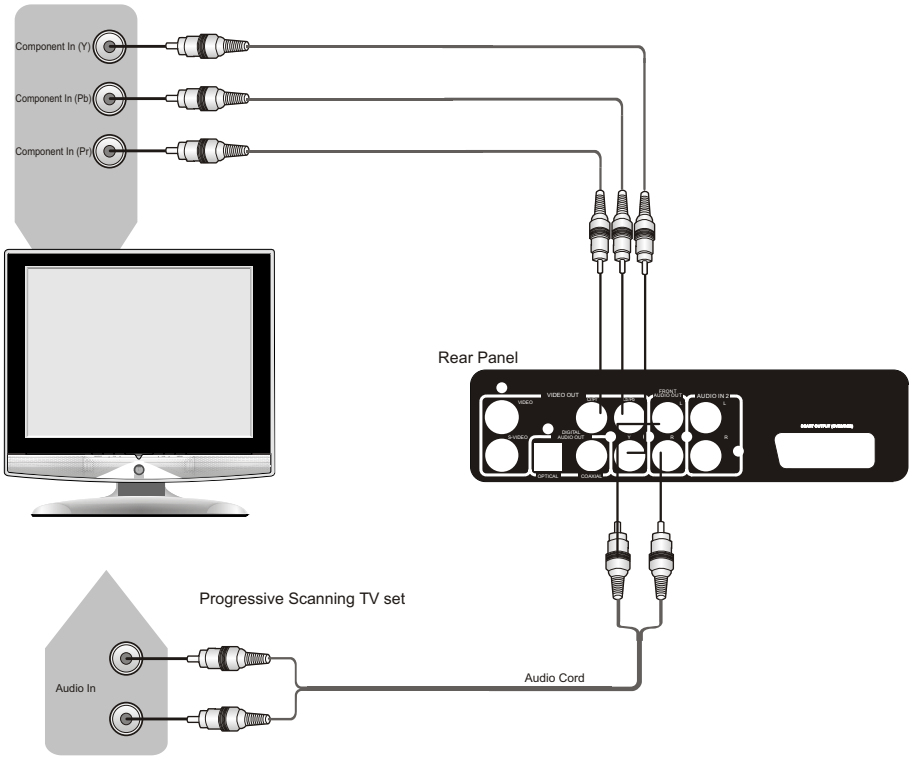


Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS Digital Out" are the trademarks of Digital The ater Systems, Inc.

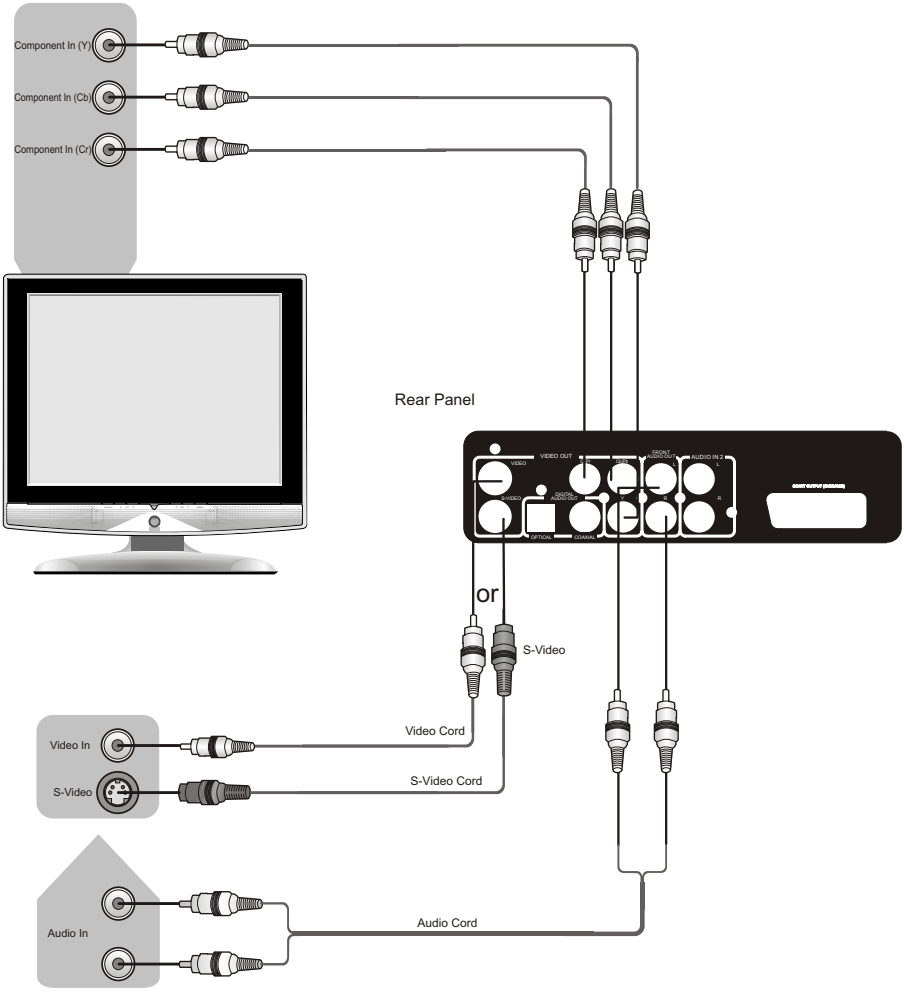
SYSTEM CONNECTIONS

Connected to Progressive Scanning TV set



- If your progressive-scan TV set has Y, Pb and Pr video inputs ,you can use this player's Y, Pb and Pr outputs.Please press the IS/PS button to switch this player to the progressive-scan video output mode.
- If you want to enjoy progressive-scan video, please press the IS/PS button to switch this player to the progressive-scan video output mode. In this mode, the composite video and S-Video still have outputs
- If this player' s audio outputs are also connected to the TV set ,the L/R channels of the Front AUDIO OUT ought to be connected to the TV AUDIO IN terminals accordingly.

Connected to TV set



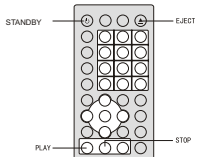
- If you want to enjoy interlacing video, press IS/PS button to switch the video of this player to interlacing output mode. In interlacing output mode, progressive output cannot be used.
- If TV set has S-Video input, you may connect the player to TV set with S-Video cord.
- If TV set has component video input, you may use the component video output of this player.
- If the audio output of this player is also connected to TV set, please connect L and R channel output of "Front Audio Out" to the audio input terminals the same group with the video input of TV set.

Playback

DVD MPEG4 SVCD VCD CD MP3

1. Connect the DC output socket of the power adaptor with the power input jack of the player to turn on working power supply
2. Press POWER button on the front panel, and the player begins working.

- Place disc into the door vertically (with disc label side facing forward), and this player will draw in the disc automatically.
- The player begins to read the disc information.



3. Press PLAY button and playback automatically begins.
4. Press STOP button to stop playback.

- Press STOP button for the first time and the player enters pre-stop status. Now if you press PLAY button, the player continues to play from the stopped point; press STOP button again and the player enter the stop status.
- When playing MP3 discs, press STOP button to enter stop mode directly.

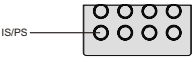
5. Press STANDBY button to enter standby mode when finish playing. Please pull out the power adaptor plug from the power source outlet if you do not intend to use this player for an extended period of time.

NOTES

- Please turn off power supply when you are not going to use the player for a long time.
- Press STOP button twice when playing DVD disc so switch into stop status.

Progressive/Interlacing OutputMode

- You can adjust this player's video output mode according to TV settings.



Press the IS/PS button.

- Press IS/PS to switch the video to the interlacing scan output mode/switch the video to the Y Pb Pr mode.

NOTES

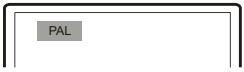
- Please change your TV settings accordingly and connect the cords according to the instructions in pages 13&14.
- When there are no audio and video outputs if you switched on this player or pressed the above two buttons and the VFD works normally, please check whether this player's progressive-scan or interlacing-scan mode corresponds to that of the TV set.
- To help you to recognize more clearly in which output mode this player is, character appears on the VFD when opening the disc tray or reading a disc. I indicates the interlacing-scan mode, while P indicates the progressive-scan mode.
- This player's interlacing-scan mode does not support the old-style 100Hz color TV set.

TV System Selection

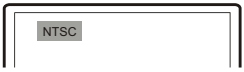
DVD MPEG4 SVCD VCD CD MP3

- Set the system of this player according to the connected TV set system in order to match to the TV set.

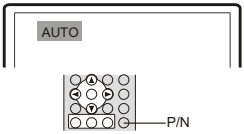
1. Press P/N button to select PAL system if the system of TV set is PAL. The TV screen displays:



2. Press P/N button to select NTSC system if the system of TV set is NTSC. The TV screen displays:



3. Press P/N button to set automatic system when using multi-system TV set. The TV screen displays:



NOTES

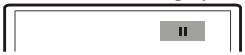
- The system cannot be switched when playing a disc in the interlacing scan mode. The system can be switched in the stop mode or no disc inside.
- Some functions of certain discs can not be performed very well when not in the very system status.
- It is recommended that you set the system of both the TV set and this player to be AUTO.

Pause/Step Playback

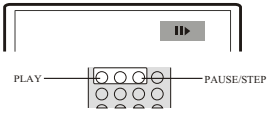
DVD MPEG4 SVCD VCD CD MP3

1. Press PAUSE/STEP button in playback status.

- Press PAUSE/STEP button once to pause playback. The TV screen displays:



2. Press PAUSE button in pause mode to realize step playback function. Each press moves one frame forward. The TV screen displays:



- No step playback function available when playing CD or MP3 discs.

3. Press PLAY button to restore playback.

NOTES

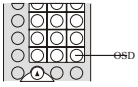
- When you set the screen saver mode to ON (See Page 25 for details), the display on TV screen turns to screen saver status after the picture on TV screen keep still for about 2 minutes (in mode such as pause mode, stop mode, menu select, set up menu, no disc mode and so on).

OSD

DVD SVCD VCD CD

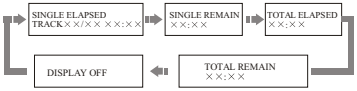
1. Press OSD button.

- Disc information and operation function hint will display on TV screen when in operation.
- Press OSD button to display the following function:



DVD disc:

SVCD, VCD, CD discs:

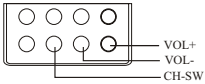


Channel Volume control

DVD MPEG4 SVCD VCD CD MP3

1. Press CH-SW button to select bass, treble, main volume or left/right channel.
2. Press volume button on the remote control of this player.

- Press VOL+ button to increase volume.
- Press VOL- button to decrease volume.
- The volume adjustment range of main volume is 0 to 30; of bass/treble is -6 to +6; of left/right channel is -6 to 0.



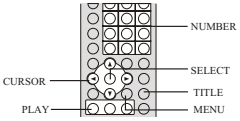
DVD Menu Playback

DVD

- Some DVD discs are made with title menu or chapter menu function.

1. Press MENU button to display menu on TV screen for selection. Operate according to the hint of menu and press number buttons to select.

2. Press CURSOR button to select the track you desired, and then press PLAY or SELECT button.



NOTES

- Press TITLE button the first time to return to title menu.
- Press MENU button the first time to return to initial menu.
- The return location varies with discs.

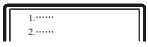
PBC Playback

SVCD VCD

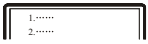
- You can enjoy the menu playback alternate function when playing SVCD, VCD 2.0 discs with menu playback function. In the setup menu, you can set the menu playback mode and select menu playback or sequence playback. Please refer to page 26 for details.

For example: Play VCD2.0 disc.

1. Main menu displays on TV screen.



- Press number buttons to select. For example: press number button 1 to select main menu 1.



2. Submenu displays on TV screen after entering into main menu 1.

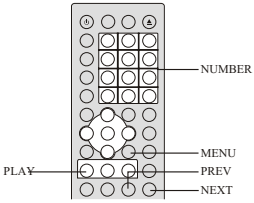
3. Press NEXT or PREV button to turn to adjacent page.

4. Press NUMBER buttons to select in submenu. For instance, press number 5 and the player begins to play the fifth track.

5. Press TITLE button to return main menu when in menu playback.

6. Press MENU button to realize sequence playback function when in menu playback; press MENU button to realize menu playback function when in sequence playback.

7.Press RETURN button to submenu.Press again to return to main menu.



Direct Selection Playback Function by Number Button

DVD MPEG4 SVCD VCD CD

1. Input disc, after the player begins reading, press number buttons to select track for playback.

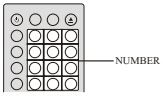
- Press the number buttons 1-9 directly to select the according track if the track number is below 10.

For example, select the track 7:

- Press the +10 button and then the number buttons 0-9 to select the according track if the track number is above 10 (including 10). For example, select the track 16:

10 + 6

- Press the +10 button twice and then press the number buttons 0-9 to select the according track if the track number is above 20 (including 20). The rest can be performed by analogy.



Language/Audio Channel Selection

DVD SVCD VCD CD

1. Press AUDIO button.

- You may select the language you desire when playing multi-language DVD, SVCD discs.

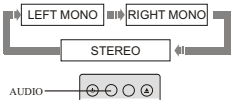
DVD disc:

SVCD disc:

- You may select audio output from left or right channel or stereo audio output when playing multi-channel CD or VCD discs.

For example: to VCD disc, dubbing is recorded in left audio channel and singing in right audio channel, you can select left channel for dubbing

VCD, CD discs:



NOTES

- Language kinds varies with different disc recording.
- To dual-language VCD disc, you may press AUDIO button to select your desired language.
- When playing some DVD discs, pressing AUDIO button may result in playing the track from its beginning.

MUTE

DVD MPEG4 SVCD VCD CD MP3

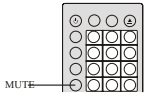
- When playing discs, mute function can be used to switch off audio output.

1. MUTE

- * Press MUTE button and the word MUTE displays on TV screen.

2. Resume audio output.

- * Press MUTE button again to unmute.

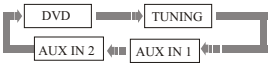


NOTE

- Press MUTE button when the player has not audio output.

Function Switch

1. Press FUNCTION button and you may switch in 3 modes of DVD, TUNING and AUX IN. The sequence of mode switch is:

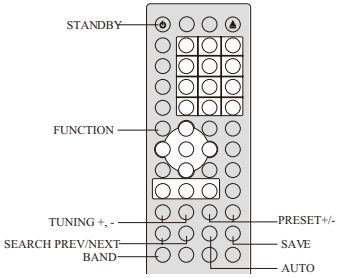


Tuning

Before tuning, please connect AM and FM antenna to "AM antenna input" port or "FM antenna input" port according to system connections of page 9.

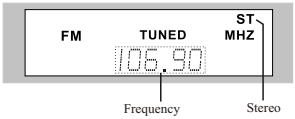
1. Press FUNCTION button to switch in tuning mode, and press BAND button to select FM or AM.

2. Manual tuning: press TUNING+/- button and the tuner searches radio stations upwards or downwards by increasing or decreasing a frequency.



3. Auto tuning: press SEARCH PREV/NEXT button on the front panel or remote control, and the tuner automatically searches radio stations upwards or downwards. When radio station is searched, the player stops searching. In FM band, search a certain radio station shown in the following figure.

If you need listen to the next radio station, please repeat the above operation.



4. All auto tuning: press AUTO button, the tuner automatically searches radio stations and saves those searched in sequence.

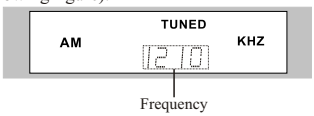
NOTE

- When selecting all auto tuning, the tuner automatically searches radio stations and saves those searched in sequence, and the previously saved radio stations will be covered.

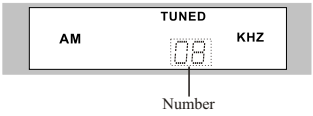
Save Radio Station

This player may pre-save 20 FM and 20 AM radio stations.
Pre-save radio station:

1. According to the above tuning operation, if you have searched a favourite radio station in AM band (as the following figure):



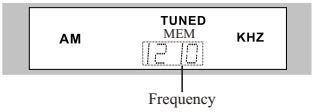
2. Press SAVE button to save it. When the radio station number flashes, press PRESET +/- button and the number increases or decrease to the position that you want to save, such as "08", press SAVE button again and you may save this radio station in "08" position.



3. If you want to save more radio stations, please repeat the above operations.

NOTE

- If the radio station has been saved, VFD screen displays "MEM" as in the following figure.



4. Listen to the saved radio station:
If you want to listen to the saved radio station, press PRESET +/- button or directly press NUMBER button to select.

AUX IN Amplifying

1. According to the system connection figure, connect the audio output terminal of external signal sources (such as digital recorder, video tape recorder, CD player and Mp3 player) to the corresponding audio input terminal of this player.

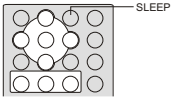
2. According to audio input connections, press FUNCTION button on the front panel or remote control to switch in AUX IN 1 or AUX IN 2 mode, and now the VFD screen displays as the following figure:

3. When external signal sources works normally and the signals are correctly sent to this player, the AUX IN signals can be amplified and volume can be adjusted through remote control.

Sleep Power-off Time Setup

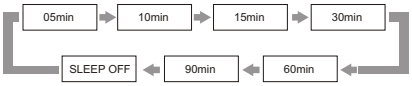
You may set sleep power-off when reading disc. Before the sleep power-off time that you set comes, the player will enter standby mode automatically.

1. Press SLEEP button.



■ DVD mode:

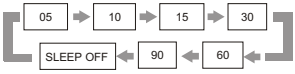
● Press SLEEP button each time and the player switches to a sleep power-off state. TV screen displays:



■ TUNING mode and AUX IN mode:

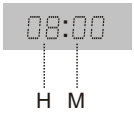
● Press SLEEP button each time and the player switches to a sleep power-off state.

VFD screen displays:

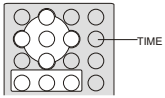


Real-time Clock Display

When the player is in standby mode, VFD screen will display the information of hour and minute, shown as follows:



Now press TIME button and you may change real-time clock.



1. Press TIME button to enter time change state. The number flashes on VFD screen indicates that this position can be changed. Press number buttons and cursor button to change. After changing, press SELECT button to exit real-time clock change state.

If the player is in playback mode:

1. Press TIME button and TV screen displays the real time:

If the player is in disc out state:

1. Press TIME button and TV screen displays:

2. Press number buttons to input year, month, date, hour, minute and second in turn.

3. Press SELECT button to exit clock setup.

Timing Power-on Setup

You may set timing power-on in standby mode. When the timing power-on time that you set comes, the player will start up automatically.

1. When in standby mode, press SLEEP button to enter timing power-on setup state and VFD screen display as follows:

2. Now press SLEEP button and you may set to open or close timing power-on function. If you set in open, the number flashes on VFD screen indicated that this position can be changed and please press number buttons and cursor button to change.

3. After changing, press SELECT button to exit timing power-on setup.

NOTE

If you do not need timing power-on function, please turn off this function according to the above operation.

USAGE OF USB EQUIPMENT AND 3-IN-1 CARD READER

USB refers to Universal Serial Bus. It is a kind of Bus conformation used for data communication with features of simple usage and convenient connecting, capable of inserting and then using instantly, such as FLASH disc.

The 3-in-1 card reader of this player can read SD Card (Secure Digital Card), MMC Card (Multi Media Card) and MS Card (Memory Stick Card).

USB refers to Universal Serial Bus. Most of USB devices on the market are USB1.1 or USB2.0.There are some types USB 1.1 devices:

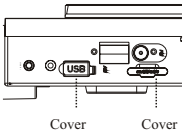
Monitors、Communication devices、Audio、Human input、Mass storage.most FLASH MEMORY, Mp3 PLayer ,USB HDD ect. belong to MASS storage Class . Mass storage

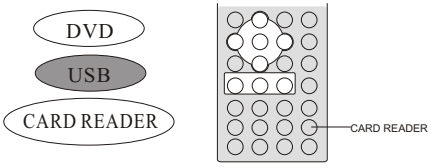
Class include 2 transport manners:

- USB 1.1 Mass Storage Class Control/Bulk/Interrupt (CBI) Transport
- USB 1.1 Mass Storage Class Bulk-Only Transport

1. Play USB Equipment:

Please insert USB equipment into the USB port of this unit firstly, press DVD/READER button and a selection menu appears on screen. You may press DVD/READER button or up/down direction button to select. If the cursor stops in "USB" item, you may press SELECT or PLAY button to confirm. After correctly reading USB equipment data, the screen will display an operation menu. Please refer to the part of "MPEG4, MP3 and JPEG FILE PLAYBACK" in page 23 for details.





2. Play 3-in-1 CARD READER

Please insert the FLASH card supported by this player into the port of card reader, press DVD/READER button and a selection menu appears on screen. You may press DVD/READER button or up/down direction button to select. If the cursor stops in "CARD READER" item, you may press SELECT or PLAY button to confirm. After correctly reading card reader equipment data, the screen will display an operation menu. Please refer to the part of "MPEG4, MP3 and JPEG FILE PLAYBACK" in page 23 for details.

After pressing DVD/READER button to display the selection menu, if you do not want to switch equipment, please move cursor to the original one, and then press SELECT or PLAY button, or wait until the menu disappears automatically.

If you want to use DVD function, please select "DVD"through the above-mentioned operation steps to exit USB and card reader functions.

NOTE

- This player can play USB equipment; MPEG4, Mp3 and JPEG files in SD, MMC and MS cards.
- When reading MPEG flies with large rate in USB equipment and FLASH card, pause may appear.
- If USB equipment and FLASH card have no files, the screen appears "Empty Device", and does not display operation menu. If USB equipment and FLASH card have troubles, or the operation is improper, the screen appears "Device Error". Please check USB equipment and FLASH card, or insert and unplug them again.
- If USB equipment and FLASH card unsupported by this player have been used, this player probably cannot work normally. Please switch off power, take out USB equipment and FLASH card, and then restart to switch on the power.
- This unit support USB 1.1 Mass Storage Class Bulk-Only Transport, we are not sure that other USB devices can be supported !So please find out about the features of USB equipments before buy.
- When use USB 1.1 Mass Storage Class Bulk-Only Transport devices, please notice the file operation system support Windows FAT ,not support FAT32 and NTFS ect. file system.
- This player probably cannot read some FLASH disc and MP3 player.

NOTE

1. When the button is invalid, the TV screen displays:

- Press the effective button again.

Fast Playback

DVD MPEG4 SVCD VCD CD

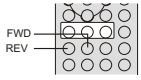
- You can select forward or reward playback to search the point you desire when playing discs.

1. Press Forward button and the player starts forward playback.

- Each press of FWD button switches the playback speed of DVD, SVCD, VCD and CD discs in the following sequence circularly:

2. Press REV button and the player starts reward playback.

- Each press of REV button switches the playback speed of DVD, SVCD, VCD and CD discs in the following sequence circularly.



Repeat Playback

DVD MPEG4 SVCD VCD CD MP3

- The repeat function enables a title/chapter/ track/disc repeated.

1. Each press of REPEAT button performs different repeat functions.

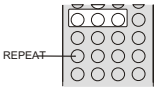
■ DVD disc:

■ SVCD, VCD and CD discs:

- The repeat playback can be performed to SVCD or VCD2.0 only when the PBC is off and to VCD1.1 or CD whether the PBC is on or off.

- The repeat function is not available for SVCD and VCD2.0 discs when the PBC is on.

■ MP3 disc:



Repeat the Selected Section

DVD MPEG4 SVCD VCD CD MP3

- When playing discs, you may press A-B button to repeat playback of certain section you desire.

1. Under normal playback, press A-B button at the desired point (point A) to set the beginning.

TV screen displays:

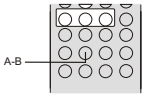
2. Under normal playback, press A-B button at the desired point (point B) to set the ending.

TV screen displays:

- The player returns to point A automatically to repeat the selected section (A-B).

3. Press A-B button for the third time.

- Normal playback resumes.



NOTE

- The A-B repeat function may be not available for some discs.
- Sections can only be selected in the same track in PBC mode.

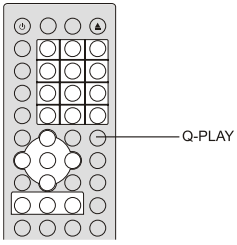
Quick-play Playback

1. Press the Q-play button and the unit plays the disc directly.

- When playing story discs, the advertisement and warning can be skipped and the disc can be played directly.

NOTE

- The Q-play function may be invalid to some discs due to different disc qualities and reco rding conditions.



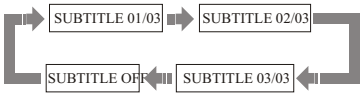
PLAY OPERATION

Subtitle Selection

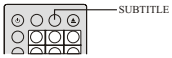
DVD

1. Press SUBTITLE button.

- When playing the DVD disc recorded with subtitles of different languages, it is possible to select different subtitle languages.
- Each press of SUBTITLE button switches one subtitle language and the TV screen displays:



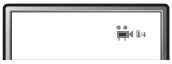
- The number of the switchable subtitle languages varies with discs. DVD disc has 32 selected subtitle language at the most.



Angle Selection

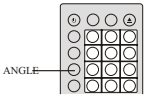
DVD

1. Press ANGLE button and the TV screen displays:



2. Press number buttons to select your desired playback angle.

3. Press ANGLE button to select the default angle to resume normal playback.



NOTE

- The number of angles varies with different DVD discs. You can change as many as they have.
- This function only applies to the discs recorded with different angles.

Playback from the Desired Point

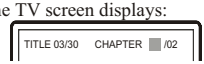
DVD MPEG4 SVCD VCD CD

Playing DVD disc

- Input the time, title or chapter directly, the content can be found quickly and played from the selected point.

1. Title, Chapter search. For example: search Chapter 2, Title 6:

- Press GOTO button and the TV screen displays:



- Press CURSOR button to lighten the title number, as shown in the figure:

- Press number button 6 to select Title 6, as shown in the figure:

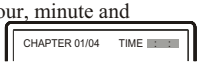
- And then press number button 2 to select Chapter 2, as shown in the figure:

2. Title time search

- Press GOTO button until the TV screen displays the following picture. Then press number buttons to input hour, minute and second.

3. Chapter time search

- Press GOTO button until the TV screen displays the following picture. Then press number buttons to input hour, minute and second.



Playing SVCD, VCD and CD discs

1. Disc time search

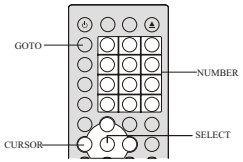
- Press GOTO button until the Tv screen displays the following picture. Then press number buttons to input hour, minute and second.

2. Track time search

- Press GOTO button until the TV screen displays the following picture. Then press number buttons to input hour, minute and second.

3. Select a track

- Press GOTO button until the TV screen displays the following picture. Then press number buttons to input the track number.

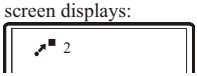


Zooming the Displayed Frame

DVD MPEG4 SVCD VCD

● Capable of zooming in/out a certain dynamic or still frame.

1. Press ZOOM button when playing discs and the TV screen displays:



● The frame is magnified.

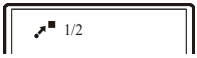
2. Press ZOOM button again and the TV screen displays:

● The frame is magnified the second time.

3. Press ZOOM button once again and the TV screen displays:

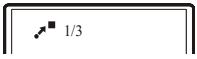
● The frame is magnified the third time.

4. Press ZOOM the fourth time and the TV screen displays:



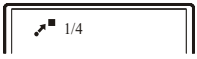
● The frame is minified.

5. Press ZOOM button the fifth time and the TV screen displays:



● The frame is minified again.

6. Press ZOOM button the sixth time and the TV screen displays:

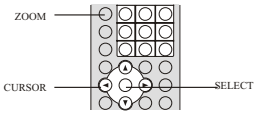


● The frame is minified the third time.

7. When the frame is magnified, press CURSOR button to move the frame.

● You can enjiy any desired part of the frame.

8. Press ZOOM button again and the frame restores normal size.

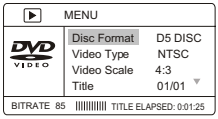


Disc INFO

The brand-new interface Disc INFO enables you to conveniently perform DVD disc functions of title, chapter, sound, subtitle, angle, title time, chapter time, repeat play and time display; or SVCD, VCD disc functions of track, disc time, track time, repeat play and time display.

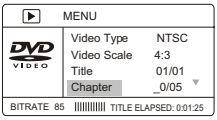
For example: Playing DVD:

1. Press INFO button under normal playback and the TV screen displays as follows:



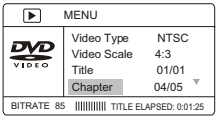
2. Press UP/BOWN arrows to select the desired time and press ENTRE button to confirm.

For example: press UP/DOWN arrows to select the desired chapter and press ENTRE button to confirm. The TV screen displays as follows:



3. Press number buttons or UP/DOWN arrows to select the desired chapter.

For example: press number button 0 and then 4, this player starts playing from the fourth chapter. The TV screen displays as follows:



● The input number should be within the optional numbers.

4. Press INFO button to exit the browser interface.

MPEG4,MP3 and JPEG File Playing

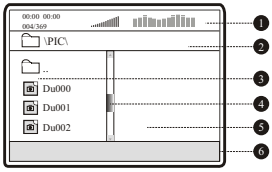
MPEG4 is the audio standard publicized by MPEG (Moving Picture Experts Group) in November,1998.As the discrepant parts between frames of picture are only processed and the same parts are deleted,

the data number are greatly decreased. The most distinct feature of MPEG4 is the high compression and clear imaging. Furthermore, MPEG4 provides elastic specifications to adjust the stream according to the used requirements. The larger stream can be used when collecting private films; and the small stream can be used in network transferring, which make MPEG4 use widely.

MP3 utilizes the third layer audio compression mode of the international standard MPEG with the compression ration as 12:1. Employing MP3, one disc can record 600-minute music or 170 songs And the sound quality is the same as CD.

JPEG (Joint Photographic Experts Group) is the most widely used picture compression and storage format today. Utilizing the high efficiency compression algorithm, JPEG compresses the original picture 15 to 20 times with very excellent picture quality. JPEG is featuring small size data, convenient application and supported by most picture processing software, so it is very fit to store photos.

The strong decoding capability of this player can decode and play the files with the above two formats. During the course of playing, an operation menu will display and the details are as follows:



❶ Status Window
Display the current status information.

❷ Directory Window
Display the current path.

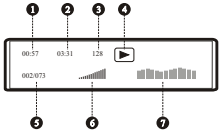
❸ File Window
Display the file in the current path.

❹ Scroll bar Window
Indicate the position of the current file.

❺ Information Window
Display The Information Of The Current Operation.

❻ Information window.
Displays the current operating prompts.

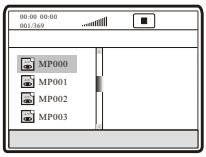
The displayed status information on the status window:



❶ Playback time of the current MP3
❷ Total time of the current Mp3
❸ The audio bit rate of the current MP3 (Generally the bit rate is 128Kbps, and sometimes it is VBR)
❹ Current playback mode indicator
❺ Track indicator
❻ Volume indicator
❼ Dynamic frequency spectrum indicator

1. File playback way

When playing MPEG4, MP3 and JPEG format discs, the player will search disc information, enter file playback way and display operation menu shown as the following figure (display content varies with disc).



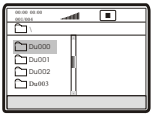
In the figure, press up/down cursor to select your desired MPEG4, MP3 and JPEG format file, and press SELECT button to confirm.

NOTE

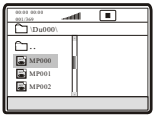
If your disc includes MP3 file, after recognizing disc, operation menu of this player will only include MP3 file, and play these files in sequence automatically. If you want to enjoy other files in disc, please press ANGLE button in stop status to switch into directory playback way.

2. Directory playback way

A:



B:



- Press up/down cursor to select your desired directory, and press SELECT button to confirm. Take figure A for instance, select directory Du000, press SELECT button, and TV screen displays as figure B. When you select [🗀] in the first line, or press left cursor, it returns to the previous directory.
- In figure B, press up/down cursor to select your desired MPEG4 format disc, press SELECT button to confirm and this player begins playing MPEG4 format movie.

2.1 Play JPEG file

Operation steps are the same with those of MP3 file. The difference in operation menu is that when selecting JPEG file, preview window will display the preview image of this file to facilitate you to select. When you select your desired JPEG file, after pressing SELECT button to confirm, the image displays in full screen.

2.2 Play MP3+JPEG file

If disc includes both MP3 and JPEG file, you may enjoy MP3 songs and JPEG file at the same time. You may play MP3 songs in above-mentioned way, then enter directory with JPEG file and enjoy JPEG picture in above-mentioned way.

■ Other basic operations

1. In stop status, pressing ANGLE button may switch in modes of file playback and directory playback.

2. Press NEXT and PREV button to turn pages upward or downward.

■ Other functions of JPEG file

1. When playing JPEG file, pressing SUBTITLE button may switch different JPEG display modes. There are 16 modes for selection.

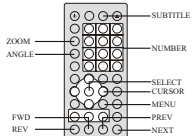
2. When playing JPEG file, pressing ZOOM button may turn it on, and pressing this button again may turn it off.

3. When turning it on, press FWD button to zoom in picture, twice over the original one in maximum; press REV button to zoom out picture, half of the original one in minimum.

4. When playing JPEG file, pressing STOP button may realize preview playback function. This player displays JPEG file of disc on TV screen at the same time. Each screen may display 12 pictures at most, and the rest displays on next screen. Press NEXT button to enter the next screen, and press PREV button to enter the previous screen. You may press NUMBER button or CURSOR button to select your desired picture, and then press SELECT button to confirm.

5. When in preview playback, pressing MENU button may exit from preview playback function.

6. When playing JPEG file, pressing CURSOR buttons may realize picture rotation function.



Headphone Enjoying

1. If you want to use headphone to enjoy all by yourself, adjust the master volume to the minimum firstly, then insert the headphone plug into the headphone jack of this player and adjust the master volume until suitable.

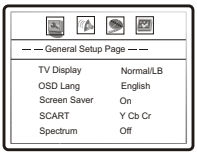
NOTE

1. When the button is invalid, the TV screen displays:

● Press the effective button again.

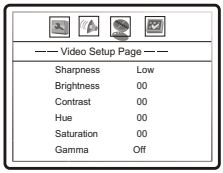
Function Setup

1. Press SETUP button, and the TV set screen displays:



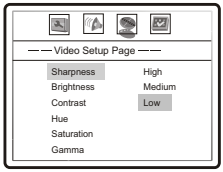
2. Press LEFT/RIGHT arrow to select the desired channel to be changed.

For example, if you want to set this player's video, please press LEFT/RIGHT arrows to select VIDEO SETUP PAGE. Press SELECT for verification. The video setup page displays on the screen.



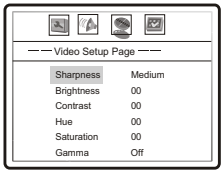
3. Press UP/DOWN arrow to select the desired item and press SELECT.

For example, press UP/DOWN arrows to select SHARPNESS and press SELECT. The sharpness appears on the screen.

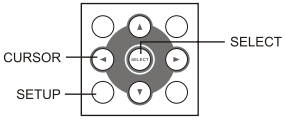


4. Press UP/DOWN arrow to select the desired value. Press SELECT to confirm it.

For example: Press UP/DOWN arrow to select "Medium", then press SELECT and the TV screen display:

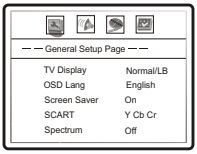


5. Press SETUP to exit the setup menu.



FUNCTION SETUP

General Settings



1. TV Display: To set the aspect ratio of this player's output image.

- Optional settings: NORMAL/PS, NORMAL/LB, WIDE.
- Default: NORMAL/LB.

NOTES

- The playing effects are contingent upon the disc's recording aspect ratio. Some discs may not be played according to your selected aspect ratio.
- WIDE is only applicable to the WIDE TV.
- Please select the aspect ration in accordance with that of your TV.

2. OSD Lang.: This item is used to set the prompts language on the screen.

- Optional settings: English,Danish,Swedish,Bokmal, Nynorsk,Finnish.
- Default: English.

3. Screen Saver: Open or close the screen saver function.

- Optional settings: OFF, ON.
- Default: ON.

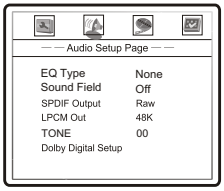
4. SCART:To set the types of the SCART out connector.

- Optional settings: Y Cb Cr,RGB.
- Default:Y Cb Cr.
- When using RGB outputs from the SCART interface, Please select RGB.Otherwise,please select YCbCr.

5. Spectrum:This item is used to set whether the Dynamic Spetrum is allowed.

- Selectable value:ON,OFF.
- Default:OFF
- Dynamic Spectrum display is invalid in MPEG4 playback.

Audio Setup



1. EQ type: To set EQ modes.

- Optional settings: None, Rock, Pop, Live, Dance, Techno, Classic, Soft.
- Default: None.

2. Sound Field: To set different sound field effects.

- Optional settings: Off, Concert, Living Room, Hall, Bathroom, Cave, Arena, Church.
- Default: Off.
- Sound Field is void when playing DVD AUDIO discs.

3. SPDIF Output: To set the bit stream type of the digital output.

- Optional settings: Raw, PCM.
- Default: Raw.

4. LPCM Out: To set the output frequency of the 96K LPCM audio data to fit for different power amplifiers.

- Optional settings: 48K, 96K,192K.
- Default: 48K.

5. Tone control: to set the tone level to match your diapason when you're singing

- Method to adjust tone control:

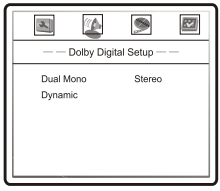
A. Press Up or Down cursor buttons to select "tone" item in Audio Setting page, and then press Select button to enter Adjustment Menu.

B. Press Left or Right cursor button to adjust setting value.

C. Press Select button to return to Audio Setting page after adjustments are done.

6. Dolby Digital Setup: Press UP/DOWN navigation keys to select DOLBY DIGITAL SETUP, then press the SELECT navigation key to enter the DOLBY DIGITAL SETUP page.

A. Dual Mono: To set the output means of the left or right audio when playing a Dolby disc with separate two-channel audio

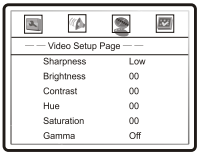


- Optional settings: Stereo, L-Mono,R-Mono, Mix-Mono.
- Default: Stereo.

B. Dynamic Compression: To set the linear compression ratio to get different compression result.

- Optional settings: OFF、1/8、1/4、3/8、1/2、5/8、3/4、7/8、FULL。
- Default: OFF.

Video Setup



1. Sharpness: Used to set the sharpness of video outputs.

- OPTIONS: High, Medium, Low.
- Default: Low.

2. Brightness: Used to set the brightness of video outputs.

3. Contrast: Used to set the contrast of video outputs.

4. Hue: Used to set the hue of video outputs.

5. Saturation: Used to set the saturation of video outputs.

- Brightness, contrast, hue and saturation adjusting means:

A. Press UP/DOWN arrow in the video setup menu to select the desired item you want to adjust. Press SELECT button to enter the item's adjustment.

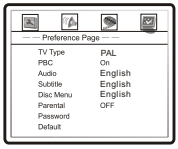
B. Press LEFT/RIGHT arrow to adjust the setting value.

C. After finishing adjustment, press SELECT arrow to return to the video setup menu.

6.Gamma emendation:This item is used to setup the Gamma value of video output. Selectable setup values: High, Medium, Low, Off

Default:Off

Initial Setup



1. TV Type: To set the output video system of this player.

- Optional settings: AUTO,PAL,NTSC.
- Default: PAL.

2. PBC: To set the PBC status.

- When playing Super VCD or VCD2.0 discs, if the PBC is ON, the menu image displays on the screen and this player enter the PBC mode; if the PBC is OFF, this player plays the disc by its sequence.
- Optional settings: On, Off.
- Default: On.

3. Audio: To set the preference audio language when playing.

4. Subtitle: To set the preference subtitle language when playing.

- Optional subtitle languages: English, French, German, Spanish, Danish, Swedish, Norwegian, Chinese, Others,Off.
- Subtitle language default:English.

5. Disc Menu Language: To set the preference disc menu language when playing.

- Optional audio/ disc menu languages: English, French, German, Spanish, Danish, Swedish, Norwegian, Chinese, Others.
- Audio /disc menu language default: English.

NOTES

- Audio/subtitle/disc menu languages are effective to DVD only.
- If the disc does not record your desired language, the player will select the disc-specified languages to play.
- Selecting other languages: Press UP/DOWN ARROW to move the cursor to OTHER item, press SELECT. Press NUMBER buttons to enter your desired language codes, then press SELECT.

6. **Parental : To set the parental control ratings to prevent children from watching the restricted contents. (In case the disc supports this function.)**

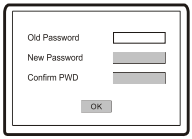
- Optional settings: KID , G, PG, PG13, PGR, R, NC17, ADULT, OFF.
- Default: OFF.

NOTE

- When changing the parental control ratings, a password is needed. Refer to the following password item for detailed settings.

7. Password: To set a four digit password to enable you to change the parental control ratings.

- Default: 7890.



8. Default: To restore all settings to the default value except for the parental control and password settings.

Useful notes

- In order to prolong the service life of your player, it is recommended to wait at least 30 seconds before you turn it on again after switching it off.
- Turn off power after operation.
- Only use the power supply of the nominal voltage, otherwise the player will not be operational or even be damaged.
- Some functions of the player may not be applicable to some discs.
- In case of occasional player halt, please turn it off and turn it on again.
- This player cannot play some Super VCD discs with the CVD format.

Troubleshooting

- **Please check for causes of problems in accordance with the following chart before contacting any maintenance personnel.**

Symptom	Cause	Correction
No disc reading	1. Condensation on laser head 2. Disc reversely loaded 3. Disc not compatible	1. Power on and wait for 1-2 hours. 2. Make sure label side facing forward. 3. Make sure this player compatible with the loaded disc.
Sound distortion	1. Volume of the connected device too high	1. Adjust volume of the device.
No sound	1. Signal not properly connected. 2. Disc warped or dirty. 3. Player in mute status.	1. Connect signal securely. 2. Clean your disc. 3. Press MUTE button again.
No picture	1. Signal not properly connected. 2. TV not set for proper system.	1. Connect signal securely. 2. Reset the AV/TV status of your TV set.
No color	1. TV system not right. 2. TV set color not properly adjusted.	1. Press P/N button on the remote control to set the system. 2. Readjust color of your TV set.
No disc reading	1. No disc in the player. 2. Disc not properly loaded. 3. Condensation on the laser head.	1. Load a disc. 2. Reload a disc, with the label side facing up. 3. Turn on the player, unload the disc and leave it on for about one hour.
Remote control failure	1. Remote control not pointing to the sensor window. 2. Remote control's operating distance more than 8 meters away from your TV set. 3. Batteries low.	1. Use the remote control properly. 2. Replace both batteries.
Temporary function failure	1. Mal-fabricated disc used. 2. Wrong buttons pressed. 3. Static leakage into the player from outside.	1. Wait 5~10 seconds and the player will automatically return to normal. 2. Operate once more. 3. Turn off the player for 1 to 2 minutes, then turn it on again.
Picture rolling	1. TV set system not properly adjusted.	1. Readjust system of your TV set.
No subtitle	1. No subtitle made in disc 2. Subtitle of player turned off 3. TV clears subtitles	1. Disc problem 2. Press SUBTITLE button to select it 3. Adjust TV to make it display subtitles

Specifications

Disc Types	DVD VIDEO,DVD AUDIO DivX*, MPEG4* Super VCD VCD1.0, 1.1, 2.0 CD-DA Mp3
Input	2-group AUX IN FM antenna in, AM antenna in
Output	Analog audio output stereo output Digital Audio Output Coaxial Output, Optical Out jack Video Output Progressive Scan Output Y Pb Pr S-Video Output Y, C Component Video Output Y Cb Cr Stereo headphone SCART Output
Video Characteristics	Video Amplitude 1.0Vp-p(75Ω) S-Video Output Amplitude Y:1.0Vp-p(75Ω), C:0.286Vp-p(75Ω) Component Video Output Amplitude Y:1.0Vp-p(75Ω), Cb/Cr: 0.7Vp-p(75Ω)
FM tuning	Frequency range 87.5MHz～108MHz Separability ＞35dB
AM tuning	Frequency range 522kHz～1710kHz
Audio Characteristics	Frequency 20Hz~20kHz(±1dB) Signal-to-noise Ratio >90dB Total harmonic distortion <0.01%
General Specifications	Power Supply 110V～250V AC,50/60Hz Power Consumption 15W Dimensions 360mm×105mm×253.5mm Mass 2.4kg
Operating Temperature	5℃～35℃
Operating Humidity	15%～75% (no condensation)

★ DivX version is still upgrading continuously and the latest version of this unit is DivX 5.1.
★ Some discs labelled with MPEG4 on the market actually are *.rm/*.ram/*.rmm and others which are imcompatible. Pleases take care when buying discs.
- The design and explanation of this product are subject to change and renovate without notice.
- We cannot ensure all the discs are fluently read because of the disc quality, disc make quality and format difference.
- As for the special make of some discs, some functions can not be realized when playing, which is not the malfunction of the unit.

Specifications for Sound System

Rated power (total harmonic distortion for amplifier＜1%)	VS1000 (subwoofer) Vs1000 (L/R)	35W (6Ω,50Hz) 15W (8Ω,1kHz)
Rated load impedance	VS1000 (subwoofer) VS1000 (L/R)	6Ω 8Ω
System frequency range (normal working condition)	VS1000 (subwoofer) VS1000 (L/R)	50Hz ~ 210Hz (+1/-3dB) 190Hz ~ 20kHz (+1/-3dB)
Input sensitivity (rated condition)	≤700mV	
SNR	≥71dB	
Total harmonic distortion plus noise (normal working condition)	＜1%	
General specifications	Power supply Max power consumption Dimensions for subwoofer speaker Dimensions for main speaker Weight	~230V, 50Hz 150W 200mm×350mm×385mm 91mm×285mm×85mm 11.3kg

- Technique and specifications are changed without further notice.

Terms

- **525/60**
  A scan system with 525 horizontal lines and 60 interlacing fields (30 frames) per second. Applied by NTSC.
- **625/50**
  A scan system with 625 horizontal lines and 50 interlacing fields (25 frames). Applied by PAL and SECAM.
- **ANALOG**
  A level theoretically changes infinitely in time and space. As compared to DIGITAL.
- **ANGLE**
  A specific view of a scene recoded from a specific angle in DVD-Video. When viewing the specific scenes, different angles can be selected.
- **CD**
  Abbreviation for Compact Disc. A laser disc storage format developed by Philips and Sony.
- **CD-DA**
  Abbreviation for Compact Disc Digital Audio. The original music CD format storing audio information as digital PCM data.
- **CD-R**
  The extension of the CD format. Data can be recorded once by utilizing coloring matter subliming technology.
- **CD-ROM**
  The extension of the CD-DA format. The computer data is stored in the digital format.
- **CHAPTER**
  Sections of a picture or a music piece on a DVD that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want.
- **COMPRESSION**
  A process which eliminates redundancy of digital data to reduce the necessary storing or transmitting data size. Lossless compression only eliminates the enough redundancy to make date restore correctly. Lossy compression sacrifices the additional data to achieve a larger compression.
- **CONTRAST**
  The range between the brightest and the darkest of an image.
- **DAC（Digital-to-analog converter)**
  A circuit converting the digital data (audio or video) to analog data.
- **DIGITAL**
  Expressed by numerals. For example, a computer utilized a group of discrete numeric values. The analog data can be digitized by sampling.
- **Dolby Digital**
  An audio encoding system developed by Dolby Laboratories and recognized as the international standards. Dolby Digital is the most common system of the DVD-Video encoding audio and the normalized audio compression system of 525/60 (NTSC) CD.
- **DOWNMIX**
  Changing multi-channel audio to dual channel stereo audio by utilizing Dolby Surround processing.
- **DVD**
  Abbreviation of Digital Video Disc or Digital Versatile Disc. An audio/video/data storage system based on 12cm and 8 cm disc.
- **DVD-R**
  A DVD version. Data can be recorded once by utilizing coloring matter subliming technology.
- **HUE**
  The color of ray or pixel. The color characteristics are depending on the ray's main elements' wavelength.
- **INTERLACE**
  A scan system. In scanning, the technique of using more than one vertical scan to reproduce a complete image. In television, 2:1 interlace is used, giving two vertical scans (fields) per frame; one field scans odd lines, and one field scans the even lines of the frame.
- **ISO 9660**
  An international standard for the file system used in CD-ROM.
- **Macrovision**
  A recording protection technology. It alters the signals. The playback looks normal in most TVs. However, when the recorded materials are played back, pictures look very distorted and invisible. Macrovision utilizes the characteristics of the AGC circuit and VCR color synchronous decoding circuit to interfere recording.
- **MPEG（Moving Pictures Expert Group)**
  An international committee who established a series of compression stands of MPEG audio and video.
- **MULTIANGLE**
  Various angles for the scene (viewpoints of the video camera) are recorded on some DVDs.
- **MULTILANGUAGE**
  Several languages for the audio track or subtitles in a picture are recorded on some DVDs.
- **SATURATION**
  The color's intensity or brightness.
- **SIGNAL-TO-NOISE RATIO**
  Ratio of pure signals to irrelevant noise like tape noise or video interference. It is measured by dB. The analog recordings always have noise. The digital recordings have no noise provided that data are filtered at the front end without compression.
- **SURROUND SOUND**
  There are speakers in front of and behind audiences to create a multi-line audio system composed of surround simulation and directional audio source sound fields.
- **TITLE**
  The longest section of a picture or a music piece on a DVD; a movie, etc., for a picture piece on video software; or an album, etc., for a music piece on audio software. Each title is assigned a title number enabling you to locate the title you want.
- **TRACK**
  Sections of a picture or a music piece on a CD or VIDEO CD. Each track is assigned a track number enabling you to locate the track you want.

Language Code List

Code	Language Name
6565	Afar
6566	Abkhazian
6570	Afrikaans
6577	Ameharic
6582	Arabic
6583	Assamese
6588	Aymara
6590	Azerbaijani
6665	Bashkir
6669	Byelorussian
6671	Bulgarian
6672	Bihari
6678	Bengali;Bangla
6679	Tibetan
6682	Breton
6765	Catalan
6779	Corsican
6783	Czech
6789	Welsh
6865	Danish
6869	German
6890	Bhutani
6976	Greek
6978	English
6979	Esperanto
6983	Spanish
6984	Estonian
6985	Basque
7065	Persian
7073	Finnish
7074	Fiji
7079	Faroese
7082	French
7089	Frisian
7165	Irish
7168	Scots Gaelic
7176	Galician
7178	Guarani
7185	Gujarati
7265	Hausa
7273	Hindi
7282	Croatian

Code	Language Name
7285	Hungarian
7289	Armenian
7365	Interlingua
7378	Indonesian
7383	Icelandic
7384	Iitalian
7387	Hebrew
7465	Japanese
7473	Yiddish
7487	Javanese
7565	Georgian
7575	Kazakh
7576	Greenlandic
7577	Cambodian
7578	Kannada
7579	Korean
7583	Kashmiri
7585	Kurdish
7589	Kirghiz
7665	Latin
7678	Lingala
7679	Laothian
7684	Lithuanian
7686	Latvian,Lettish
7771	Malagasy
7773	Maori
7775	Macedonian
7776	Malayalam
7778	Mongolian
7779	Moldavian
7782	Marathi
7783	Malay
7784	Maltese
7789	Burmese
7865	Nauru
7869	Nepali
7876	Dutch
7879	Norwegian
7982	Oriya
8065	Panjabi
8076	Polish
8083	Pashto,Pushto

Code	Language Name
8084	Portuguese
8185	Quechua
8277	Rhaeto-Romance
8279	Romanian
8285	Russian
8365	Sanskrit
8368	Sindhi
8372	Serbo-Croatian
8373	Singhalese
8375	Slovak
8376	Slovenian
8377	Samoan
8378	Shona
8379	Somali
8381	Albanian
8382	Serbian
8385	Sundanese
8386	Swedish
8387	Swahili
8465	Tamil
8469	Telugu
8471	Tajik
8472	Thai
8473	Tigrinya
8475	Turkmen
8476	Tagalog
8479	Tonga
8482	Turkish
8484	Tatar
8487	Twi
8575	Ukrainian
8582	Urdu
8590	Uzbek
8673	Vietnamese
8679	Volapuk
8779	Wolof
8872	Xhosa
8979	Yoruba
9072	Chinese
9085	Zulu